1. AMENDMENTS IN THE SPECIFICATION:

In paragraph [302], please replace Table 7 with the following Table 7:

TABLE 7
SUMMARY OF MUTANTS

Mutant ^a	Type ^b	Amino Acid Positions ^b	SEQ ID NO:	Class	Phenotype ^c
mut1	Ala sub	9-13 DWLED-AWLAA	50	1	wt
mut2 ¹	Ala sub	24-28 KLKPG-ALAPG	51	1	wt
mut3 ²	Ala sub	33-37 KPKER-APAAA	52	1	wt, surface
mut4 ²	Ala sub	39-43 KDDSR-AAASA	53	2a	pd, hep ⁺
mut5 ³	Ala sub	63-67 EPVNE-APVNA	54	2a	pd, hep ⁺
mut6 ²	Ala sub	67-71 EADAA-AAAAA	55	2a	pd, hep ⁺
mut7 ²	Ala sub	74-78 EHDKA-AHAAA	56	2a	pd, hep ⁺
mut8 ²	Ala sub	76-80 DKAYD-AAAYA	57	2a	pd, hep ⁺
mut9¹	Ala sub	84-88 DSGDN-ASGAN	58	1	wt
$mut10^2$	Ala sub	95-99 HADAE-AAAAA	59	2a	pd, hep ⁺
$mut11^2$	Ala sub	102-107 ERLKED-AALAAAA	60	1	wt
mut12 ²	Ala sub	122-126 KKRVL-AAAVL	61	2a	pd, hep ⁺
mut13 ²	Ala sub	142-146 KKRPV-AAAPV	62	1	wt
mut14 ¹	Ala sub	152-156 EPDSS-APASS	63	1	wt
mut15 ²	Ala sub	168-172 RKRLN-AAALN	64	2a	pd, hep ⁺
mut16 ²	Ala sub	178-182 GDADS-GAAAS	65	1	wt
mut17 ¹	Ala sub	180-184 DSVPD-ASVPA	66	1	wt
$mut18^2$	Ala sub	216-220 EGADG-AGAAG	67	2a	Pd, hep ⁺
mut19 ¹	Ala sub	228-232 WHCDS-WACAS	68	4b	ni, no capsid
mut20²	Ala sub	235-239 MGDRV-MGAAV	69	4b	ni, no capsid
mut21 ⁴	Ala sub	254-258 NHLYK-NALYA	70	2b	pd, unstable capsid
mut22 ⁴	Ala sub	268-272 NDNHY-NANAY	71	4a	ni, full particle

Mutant ^a	Type ^b	Amino Acid Positions ^b	SEQ ID NO:	Class	Phenotype ^c
mut23 ⁴	Ala sub	285-289 NRFHC-NAFAC	72	4b	ni, no capsid
mut24 ²	Ala sub	291-295 FSPRD-FSPAA	73	4b	ni, no capsid
$mut25^2$	Ala sub	307-311 RPKRL-APAAL	74	4b	ni, no capsid
mut26²	Ala sub	320-324 VKEVT-VAAVT	75	3a	hs
mut27 ¹	Ala sub	344-348 TDSEY-TASAY	76	3a	hs
mut28 ²	Ala sub	384-385 AAA		3a	cs
mut29 ¹	Ala sub	389 R-A		1	wt
mut30 ²	Ala sub	415-419 FEDVP-FAAVP	77	2a	pd, hep ⁺
mut31 ⁴	Ala sub	432 R-A		4c	ni, empty particle
mut32 ²	Ala sub	454-456 TTT-AAA	78	1	wt
mut33 ²	Ala sub	469-472 DIRD-AIAA	79	3a	hs
mut34 ²	Ala sub	490-494 KTSAD-ATSAA	80	2a	pd, hep ⁺
mut35 ²	Ala ins	509 AAAA	81	3b	cs, hep, surface
mut36¹	Ala sub	513-517 RDSLV-AASLV	82	2a	pd, hep ⁺
mut37²	Ala sub	527-532 KDDEEK-AAAAA	83	4a	ni, full particle
mut38²	Ala sub	547-551 SEKTN-SAATN	84	1	wt
mut39 ²	Ala sub	553-557 DIEKV-AIAAV	85	2b	pd, unstable capsid
$mut40^2$	Ala sub	561-565 DEEEI-AAAAI	86	4d	ni, hep , full
					particle, surface
mut41 ²	Ala sub	585-588 RGNR-AGAA	87	2c	pd, hep, surface
mut42 ²	Ala sub	607-611 QDRDV-QAAAV	88	4b	ni, no capsid
mut43 ²	Ala sub	624-628 TDGHR-TAGAF	89	1	wt
mut44 ¹	Ala sub	637-641 FGLKH-FGLAA	90	1	wt
<i>mut</i> 45 ²	Ala sub	665 K-A		1	wt
$mut46^2$	Ala sub	681-683 EIE-AAA	91	4b	ni, no capsid
$mut47^2$	Ala sub	689-693 ENSKR-ASSAA	92	4b	ni, no capsid
mut48 ¹	Ala sub	706 K-A		2a	Pd, hep ⁺

Mutant ^a	Type ^b	Amino Acid Positions ^b	SEQ ID NO:	Class	Phenotype ^c
L1	HA ins	266		2a	pd, A20, A20 epitope, surface
L2	HA ins	328		4a	ni, A20 ⁺ , surface
L3	HA ins	447		2a	pd, hep ⁺ , surface
L4	HA ins	522		4d	ni, hep, surface
L5	HA ins	553		4a	ni, A20 ⁺ , surface
L6	HA ins	591		2c	pd, hep, surface
L7	HA ins	664		2a	pd, hep ⁺ , surface
VPN1	HA, AU ins	1		2a	pd, hep ⁺ , surface
VP1	HA ins, Ser sub	34		2a	pd, hep ⁺ , surface
VPN2 ^d	HA, Ser ins	138		2a	pd, hep ⁺ , surface
VPN3	HA, Ser ins	203		4b	ni, no capsid
VPC	HA, Ser, AU, His ins	735		4b	ni, no capsid
mut1subser1	Ser sub	10		4a	ni, A20 ⁺
mut2subser2	Ser sub	24		4a	ni, A20 ⁺
mut3subser3	Ser sub	34		2a	pd, hep ⁺
mut9subser4	Ser sub	84		4a	ni, A20 ⁺
mut14subser5	Ser sub	150		4a	ni, A20 ⁺
mut16subser6	Ser sub	178		4b	ni, no capsid
mut19subser7	Ser sub	224		4b	ni, no capsid
mut32subser8	Ser sub	454		4b	ni, no capsid
mut37subser9	Ser sub	526		4b	ni, no capsid
mut39subser10	Ser sub	553		4b	ni, no capsid
mut40subser11	Ser sub	562		4b	ni, no capsid
mut41subser12	Ser sub	590		4b	ni, no capsid

Mutant ^a	Type ^b	Amino Acid Positions ^b	SEQ ID NO:	Class	Phenotype ^c
mut44subser13	Ser sub	638	***	4b	ni, no capsid
mut45subser14	Ser sub	664		4b	ni, no capsid
mut46subser15	Ser sub	682		4b	ni, no capsid
mut4subflg2	FLAG sub	39		4a	ni, A20 ⁺
mut8subflg3	FLAG sub	76		4a	ni, A20 ⁺
mut16subflg4	FLAG sub	178		4a	ni, A20 ⁺
mut32subflg5	FLAG sub	454		4a	ni, A20 ⁺
mut37subflg6	FLAG sub	526		4a	ni, A20 ⁺
mut38subflg7	FLAG sub	547		4a	ni, A20 ⁺
mut40subflg8	FLAG sub	562		4b	ni, no capsid
mut44subflg9	FLAG sub	638		4b	ni, no capsid
mut45subflg10	FLAG sub	664		4b	ni, no capsid
mut46subflg11	FLAG sub	682		4b	ni, no capsid

Superscripts 1 to 4 indicate that a restriction site was introduced as a result of the alanine substitution mutation: 1, NheI; 2, EagI, 3, HpaI; 4, MluI.

b Ala sub, alanine substitution mutant; Ala ins, string of alanine residues inserted after the indicated amino acid; HA, AU, His, or Ser ins, insertion of the HA, AU, His, or Ser epitope immediately after the indicated amino acid of wt cap; Ser or FLAG sub, substitution of the Ser or FLAG epitope for the wt AAV capsid sequence beginning immediately after the indicated AAV amino acid residue. Amino acid tags: HA, YPYDVPDYA (SEQ ID NO:36); AU, DTYRYI (SEQ ID NO:37); His, HHHHHHH (SEQ ID NO:38); Ser, FVFLI (SEQ ID NO:39); FLAG (SEQ ID

NO:40), DYKDDDDK (SEQ ID NO:41).

c pd, partially defective for infectivity, between 1 to 3 logs lower than wt; cs and hs, cold sensitive and heat sensitive, respectively; ni, noninfectious, 5 logs lower than wt; hep⁺, mutant bound to a heparan column; hep⁻, mutant did not bind to heparan sulfate; no capsid, mutant was A20 ELISA negative and MAb B1 negative; A20⁺, mutant could be detected with A20 antibody; surface, position was present on the surface of the capsid.

^d The serpin insertion in VPN2 was KFNKPFVFLI (SEQ ID NO:42).

After paragraph [995], please replace the current Sequence Listing filed on August 31, 2005 with the enclosed Sequence Listing (pages 1-20) filed herewith.